

## TRI-TILT MIXING HEAD

### ABSTRACT OF THE DISCLOSURE

A mixing head assembly comprising a housing having an input mix chamber passageway and a non-perpendicular output passageway. The assembly also includes a first input including a first nozzle for injecting a first fluid into the input mix chamber passageway and a second nozzle for injecting a second fluid into the input mix chamber passageway whereby the second fluid can mix with the first fluid to form a mixed fluid. The first nozzle and the second nozzle are configured to inject the first fluid and the second fluid into the input mix chamber passageway such that the first fluid and the second fluid meet at an intersection point. The first axial line and the second axial line are neither co-linear nor co-planar. Furthermore, an intersection point of the first fluid and the second fluid is not located along a longitudinal axis of the input mix chamber passageway.